

WHAT IS CLAIMED IS:

1. A data communications server system, comprising:
 - 5 a computerized network of patient nodes and clinician nodes; and
 - means for the consolidation and distribution of individual or
 - aggregate patient scheduling, treatment regimens, and outcome
 - data.
2. The data communication server system of claim 1, wherein at least a
- 10 portion of the patient data is collected by implanted medical devices.
3. The data communications server system of claim 1, wherein the
- treatment regimens distributed comprise instructions to implanted medical
- devices.
4. A computerized method of collecting and utilizing distributed patient
- 15 and clinician data, comprising the steps of:
 - a. providing a data communications network having a plurality of nodes from
 - which each node may access, directly or indirectly, a central server
 - system;
 - b. providing to the network plurality of nodes a computerized interface to
 - 20 resources of the server;
 - c. gathering via at least one of said plurality of nodes of the network node
 - computerized interfaces individual patient information;
 - d. aggregating the patient information; and
 - e. distributing the patient information to network nodes administered by
 - 25 clinicians.
5. The computerized method of claim 4, wherein the central server
- system comprises a network of servers.
6. The computerized method of claim 4, wherein the computerized
- 30 interface to the central server system is implemented as a html browser utility.
7. The computerized method of claim 4, wherein the resources of the
- central server system comprise a body of empirical data regarding implantable
- medical devices.

8. The computerized method of claim 7, wherein the resources of the central server system further comprise a system of comparing and analyzing the body of empirical data.
9. The computerized method of claim 7, wherein the empirical data regarding implanted medical devices comprises data identifiable to individual patients.
10. The computerized method of claim 9, wherein the data identifiable to individual patients may be accessed by the individual patients to which this data pertains.
11. The computerized method of claim 10, wherein the data identifiable to individual patients is protected by a encryption protocol when accessed.
12. The computerized method of claim 11, wherein the security protocol protecting the data identifiable to individual patients is a secure socket layer.
13. The computerized method of claim 11, wherein the security protocol protecting the data identifiable to individual patients is the https protocol.
14. The computerized method of claim 11, wherein a user attempting to access data identifiable to an individual patient must authenticate themselves prior to receiving the data.
15. The computerized method of claim 14, wherein the authentication to which a user is subject comprises strong authentication.
16. The system of collecting and utilizing distributed patient and clinician data of claim 4, wherein the step of aggregating the patient information further comprises the step of removing patient data that may provide individual identification of a patient.
17. A real-time information management system for implantable medical devices (IMDs), comprising:
 - a computerized data communication server network that allows patients to view, analyze and display data stored on their IMDs;
 - a server-based interface to disseminate to patients information about their IMDs;
 - means for chronic heart rhythm monitoring; and

means for provision of consultation for therapy and clinical care in real-time.

18. The real-time information management system of claim 17, wherein the information about patient IMDs comprises technology developments, clinical trials, and support-group information.

19. A computerized method of communicating in real time between patients, clinicians, and implanted medical devices comprising the steps of:

- a. capturing patient implanted device data;
- b. storing the implanted device data on a central server system;
- c. analyzing and distributing aggregate patient implanted device information;
- d. displaying patient-specific data in real time over a public network; and
- e. dispensing therapeutic and clinical care based upon the implanted medical device information.

20. The computerized method of claim 19 wherein the patient is able to monitor clinical care and therapy.

21. The method of claim 19 wherein the displaying of patient specific data over a public network is done using a secure protocol with an authenticated client.